

A METHOD FOR EFFICIENT SUPPLY OF POWER TO A  
MICROCONTROLLER

ABSTRACT OF THE DISCLOSURE

5 A method and a system for supplying power to a  
microcontroller with a single cell. One embodiment of the  
present invention discloses incorporation of a power supply  
pump circuit with the microcontroller and their dynamic  
interaction. The microcontroller sends its power  
10 requirements to the power supply pump circuit and in  
response, the power supply pump circuit controls the  
operating voltage with optimal efficiency. The dynamic  
update of power supply pump circuit results in an efficient  
use of the power supply pump circuit and thus results in a  
15 reduction of the number of dry cell batteries to only a  
single cell. Incorporation of the microcontroller and power  
supply pump circuit onto a single chip reduces the pin  
number requirements as well as the space required on the  
printed circuit board.